

ACTIVITY DESCRIPTION		Environmental Aspects															Comments
		Regulated Industrial Waste	Hazardous Waste	Radioactive Waste	Mixed Waste	Regulated Medical Waste	Atmospheric Discharges	Liquid Discharges	Chemical (C) Storage/Use or Radioactive Material (R)	Water Consumption	Power Consumption	Historical Monuments / Cultural Resources	Sensitive/Endangered Species and Sensitive Habitats	Env. Noise	Historical Contamination	Soil Activation	
Title	Number							C	R								
Mixed resin bed regeneration	NSLS-461-MRB	a	a				b	b,f		x	x					System backflow devices tested and maintained by Plant Engineering's (PE) O&M System	
Machine shop operations	NSLS-462-MS	a	a			b	b	f		x	x						
Photographic dark room	NSLS-463-PO	a	a			x	b	f		x	x						
Vacuum system maintenance	NSLS-470-VSM	a	a				b	f			x						
Electrical/Mechanical equipment maintenance	NSLS-466-EMM	a	a			x	b	a, d, f		x	x						
Experimental program	NSLS-467-GCO	a	a	a	a	x	b	f	x	x	x					Includes glassware cleaning	
Cooling Water System	NSLS-469-CWS	a				x	b	f		x	x						
Haz Stor shed						x		f	x								
Silicon Crystal Etching & Cutting	NSLS-591-CE	a	a			x		f		x	x						
General facility operation								b,f		x	x			a	Soil activation measured, but never exceeds action levels as per Accelerator Safety subject area.		
Administration										x	x						

**Note:**

1. A blank cell indicates that the aspect is not present.
2. An x in a cell indicates that the aspect is present, but is not significant.
3. A letter other than x indicates that the aspect is significant.  
(The letter refers to the specific criteria for the aspect which has been met.)  
See Key:

NSLS Environmental Aspect Identification:

Revision 04	12/19/2000
Revision 05	05/15/2002
Revision 06	12/31/2002
Revision 07	11/13/2003

## Review Guidance

### Definitions are taken directly from the "Identification of Significant Environmental Aspects and Impacts" Subject Area

**Any generation of the below waste streams will be coded with an "a":**

Industrial Waste, Hazardous, Radioactive , Mixed, Medical Waste

**Atmospheric Discharge**

- a) Any process that requires a point source air permit or inclusion in the Title V permit as an emissions unit, or contributes to a regulated emission point.
- b) Operations or activities that use engineering controls to reduce hazardous air pollutant or radionuclide emissions.□

**Liquid Discharge**

- a) Radionuclides that are detectable at the point of discharge from the facility.
- b) Discharges of any of the chemicals listed on the BNL State Pollutant Discharge Elimination System (SPDES) Permit Chemicals exhibit.
- c) Operations or activities that use engineering controls to reduce the quantity or concentration of pollutant.
- d) Existence of underground injection control devices under the responsibility of the owner organization as specified in the Underground Injection Control subject area.

**Chemical Storage/Use or Radioactive Material**

- a) Storage or use of chemicals or radioactive materials requiring engineering controls specified in the Storage and Transfer of Hazardous Materials subject area.
- b) System configuration requires back-flow prevention.
- c) Transportation of chemicals or dispersible radioactive materials.
- d) Storage or use of PCBs as specified in the Oils/PCB Management subject area.
- e) Any underground pipes or ducts that contain chemical and/or radioactive material/contamination.
- f) Storage or use in quantities capable of resulting in a spill, as defined in the Spill Response Subject Area.

**Water Consumption**

- a) Total organizational water consumption greater than 650,000 gal/day.
- b) Continuous (24/hrs/day), permanent (to continue for the foreseeable future) once-through water use greater than 4 gpm that discharges to the sanitary sewer system.
- c) Daily (8 hrs/day), permanent, once-through water use greater than 10 gpm that discharges to the sanitary sewer system.

**Power Consumption**

- a) Total Organizational Power Consumption Greater than 58 M KWh/yr.

**Environmental Noise**

- a) Exceed ordinance levels [7am-10pm: 55 dba; 10pm-7am: 50 dba (20 min. average)] at property boundary of off-site location.

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